(J) INSTALL 3 IN. SCHEDULE 80 POLYVINYL CHLORIDE CONDUIT-

(K) INSTALL 3 IN. SCHEDULE 80 POLYVINYL CHLORIDE CONDUIT-

TAPE (STOP BAR)

(M) EXISTING HANDHOLE TO REMAIN

(N) REMOVE EXISTING LOOP WIRES

(n) REMOVE EXISTING GROUND MOUNTED SIGN

(SIGNAL HEADS, SPAN WIRE AND SIGNS)

(L) INSTALL 24 INCH WHITE PERMANENT PREFORMED PAVEMENT MARKING

(P) REMOVE EXISTING SIGNAL POLE AND ALL ASSOCIATED EQUIPMENT

(Q) INSTALL I INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE

(R) INSTALL 4 IN. SCHEDULE 80 POLYVINYL CHLORIDE CONDUIT-

PROJECT DESCRIPTION EQUIPMENT LIST I. GENERAL A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR THIS PROJECT IS LOCATED AT THE INTERSECTION OF US I AND MUIRKIRK MEADOWS DRIVE IN DESCRIPTION PRINCE GEORGE'S COUNTY, MARYLAND AND INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC SIGNAL THAT IS AFFECTED BY GEOMETRIC IMPROVEMENTS. US I IS ASSUMED TO RUN IN A 900000 FURNISH NEMA 6 BASE MOUNTED CABINET & CONTROLLER NORTH/SOUTH DIRECTION. FOUR CHANNEL RACK MOUNTED LOOP DETECTOR AMPLIFIER 900000 II. INTERSECTION OPERATION SHEET ALUMINUM SIGNS 900000 THE PROPOSED TRAFFIC SIGNAL WILL OPERATE IN A NEMA SIX (6) PHASE, FULLY TRAFFIC ACTUATED MODE. THE US | APPROACHES WILL OPERATE CONCURRENTLY. WITH AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR NORTHBOUND TRAFFIC. THE MUIRKIRK MEADOWS - I EA. M95-I SIGN (24" X 78") INTERSECTION DUAL DIRECTIONAL DRIVE APPROACH WILL OPERATE SEPERATE. "NORTH US I SOUTH" - MAST ARM MOUNT, D3-2 SIGN (12" X 78") "BALTIMORE AVE" A NEW EIGHT PHASE FULLY TRAFFIC ACTUATED CONTROLLER WITH TWO (2) FOUR CHANNEL - 2 EA. D3-2 SIGN (18" X 96") DUAL FACED SIGN "MUIRKIRK MEADOWS DR" RACK MOUNTED LOOP DETECTOR AMPLIFIERS, TELEMETRY MODULE, AND INTERSECTION - MAST ARM MOUNT MONITOR WITH BATTERY BACK UP HOUSED IN A NEMA SIZE SIX (6) BASE MOUNTED CABINET. - I EA. RIO-12 SIGN (36 IN. X 48 IN.) "LEFT TURN YIELD ON GREEN" MAST ARM MOUNT III. SPECIAL NOTES 1. THE SIGNAL SHOP WILL BE NOTIFIED TO PERFORM INTERNAL WIRING OF THE CABINET AT US I AND MUIRKIRK MEADOWS DRIVE. ALL CABLE SHALL BE IDENTIFIED AND BROUGHT INTO THE CONTROLLER BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY MR. EDWARD RODENHIZER, SHA SIGNAL SHOP AT (410) 787-7650 SEVENTY-TWO (72) HOURS IN ADVANCE OF THIS WORK. B. EQUIPMENT TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR 2. MOT PLATES FOR THIS PROJECT WILL BE AS FOLLOWS: 104.00 TO 104.00-12, 104.02-01, 104.03-01 DESCRIPTION ITEM NO. QUANTITY 120500 LS MAINTENANCE OF TRAFFIC 203030 18 CY 95 LF 585445 FURNISH AND INSTALL 24" WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE (STOP BAR) 801004 CONSTRUCTION DETAILS II CY FURNISH AND INSTALL CONCRETE SIGNAL FOUNDATION 800000 FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED (A) INSTALL NEMA SIX PHASE BASE MOUNTED CONTROLLER 800000 900 LF FURNISH AND INSTALL 2 IN, SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED (B) INSTALL 27 FOOT MAST ARM POLE WITH 50 FOOT MAST ARM. AND 20 FOOT LIGHTING ARM (NOTE: TWO 4 INCH SCHEDULE 80. 175 LF 800000 FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED 90 DEGREE PVC CONDUIT BEND, $4-2\frac{1}{4}$ x 96" ANCHOR BOLTS IN BASE) 130 LF 805||5 FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED (C) INSTALL 27 FOOT MAST ARM POLE WITH 50/60 FOOT TWIN MAST ARM, 8050H FURNISH AND INSTALL | INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE AND 15 FOOT LIGHTING ARM (NOTE: 1-3 INCH SCHEDULE 80, 90 DEGREE PVC CONDUIT BEND, 4-21/4" X 96 "ANCHOR BOLTS IN BASE) FURNISH AND INSTALL I IN, LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT SLEEVE (D) INSTALL 6 FT. X 30 FT. LOOP DETECTOR IN 1/4 IN. FLEXIBLE 811001 FURNISH AND INSTALL ELECTRICAL HANDHOLE TUBING (3-6-3 TURNS) INSTALL OVERHEAD SIGN (E) INSTALL MICRO LOOP PROBES 500 FT LEAD-IN 831010 FURNISH AND INSTALL 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE (F) INSTALL MICRO LOOP PROBES 1000FT LEAD-IN 80250I FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (G) INSTALL HAND HOLE (NO_e 6 AWG) 838003 FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT (H) INSTALL I'LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT (120/240V,1 PH,3 W) FOR DETECTOR SLEEVE 000008 FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION (BLACK FACED) (I) INSTALL 2 IN. SCHEDULE 80 POLYVINYL CHLORIDE CONDUIT-FURNISH AND INSTALL 8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION (BLACK FACED) 800000

861116

861104

861107

861108

862101

862102

800000

800000

800000

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800000

871202

810010

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LEA

ΙEΑ

ΙEΑ

2 EA

4 EA

ΙĒΑ

70 LF

3 EA

LEA.

L.S.

L.S.

L.S.

FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR NO.12 AWG

FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR NO. 14 AWG

FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR NO.14 AWG

FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)

FURNISH AND INSTALL 15 FT. LIGHTING ARM ON SIGNAL STRUCTURE

FURNISH AND INSTALL TWIN MAST ARM POLE 12 IN. X 27 FT. AND

FURNISH AND INSTALL MICROLOOP PROBE SET 500 FT. LEAD IN

FURNISH AND INSTALL MICROLOOP PROBE SET 1000 FT. LEAD IN

INSTALL CONTROLLER AND CABINET - BASE MOUNT

REMOVAL OF EQUIPMENT TO BE SALVAGED

DELIVERY OF SALVAGED EQUIPMENT

60/50 FT. TWIN MAST ARM

FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED

FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)

FURNISH AND INSTALL MAST ARM POLE 12 IN, X 27 FT. AND 50' MAST ARM

FURNISH AND INSTALL ELECTRICAL CABLE I-CONDUCTOR NO. 4 AWG-THHN/THWN

FURNISH AND INSTALL GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

FURNISH AND INSTALL 20 FT. LIGHTING ARM ON SIGNAL STRUCTURE

RESET EXISTING SPAN WIRE HEIGHTS AND SIGNAL HEAD HEIGHTS

THE FOLLOWING CONTACT PERSONS FOR DISTRICT # 3 ARE AS FOLLOWS:

Mr. Charlie Watkins District Engineer Phone (301) 513-7311

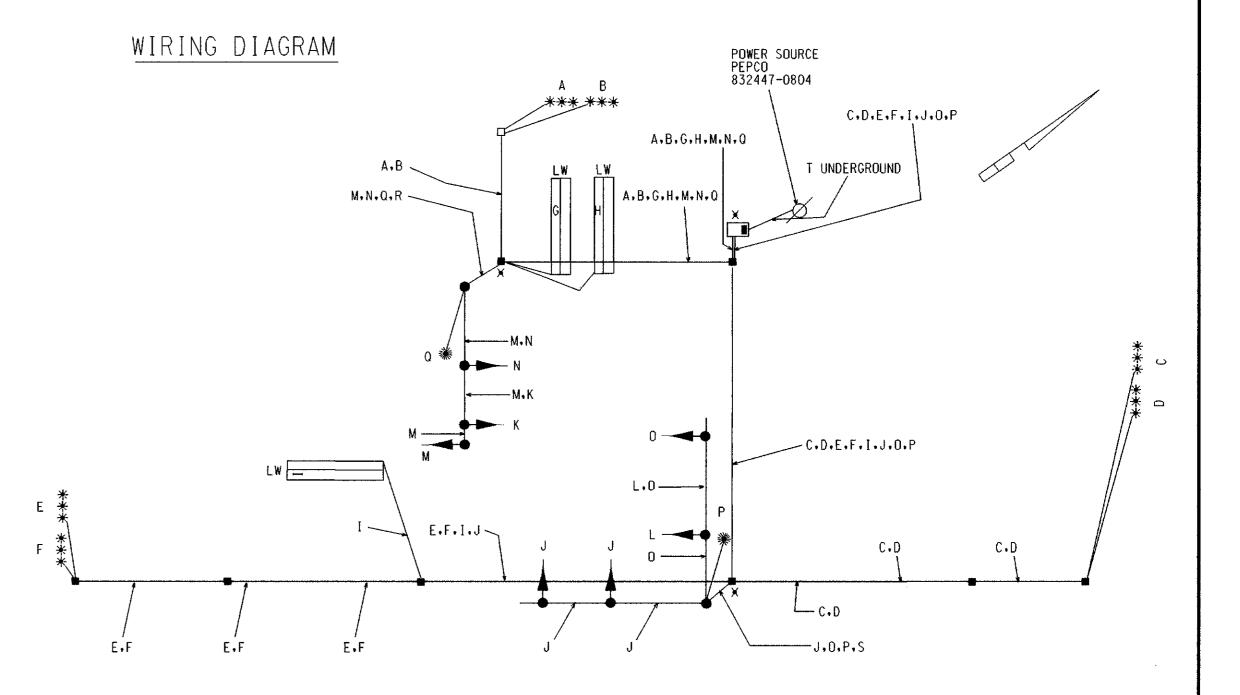
Mr. Majib Shakid Assistant District Engineer-Traffic Phone: (301) 513-7358

Mr. Randy Brown Assistant District Engineer-Maintenance Phone: (301) 513-7304

Mr. Augustine Rebish Assistant District Engineer-Utility Phone: (301) 513-7350

Mr. Richard Daff Chief Traffic Operations Division Phone: (410) 787-7360

The Power Company Representative is:
POTOMAC ELECTRIC POWER COMPANY
8300 OLD MARLBORO PIKE
UPPER MARLBORO, MARYLAND 20772
(301) 961-5325



C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND

DELIVERED TO 7491 CONNELLY DRIVE, HANOVER, MARYLAND 21076 IN ADVANCE OF REMOVAL, CONTACT MR. DAVID SCHWARTZ AT (410) 787-7668

QUANTITY

DESCRIPTION

I EA.

POLE MOUNTED CONTROLLER AND CABINET

: ALL EQUIPMENT AND MATERIAL NOT LISTED ABOVE WILL BECOME THE PROPERTY OF THE

CONTRACTOR.

WIRING KEY

A.B.C.D.E.F MICRO PROBE CABLE

G.H.I 2 CONDUCTOR ALUMINUM SHIELD (NO. 14 AWG)

J.K.L 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
M.N.O 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

M.N.O 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

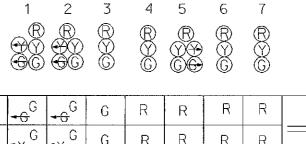
P. Q 2 CONDUCTOR ELECTRICAL CABLE (TYPE T/C)

R.S STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

T 1 CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG)

GROUND ROD

PHASE CHART



PHASE 1 & 6	-6	→G G	G	R	R	R	R	*	
PHASE 1 CHANGE	-y G	∗ Y G	G	R	R	R	R		►
PHASE 2 & 6	G	G	G	G	G	R	R	•	
PHASE 2 & 6 CHANGE	Υ	Υ	Υ	Υ	Υ	R	R		
PHASE 4	R	R	R	R	R G ►	G	G	1	A
PHASE 4 CHANGE	R	R	R	R	R Y•	Υ	Υ	▼	H
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	←	[

271 2 3 6	REVISIONS	APPROVALS			
	<u>2</u> August 30, 2000				
		TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION			
		ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION			
L		CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION			
		DIRECTOR, TRAFFIC & SAFETY			

MARY	LAND DOT - ST	ATE HIGHWAY	ADMINISTRATIO
	Office of Tr	affic & Safety	y
TRAFFIC	ENGINEERI	NG DESIGN	N DIVISION

US 1 AND MUIRKIRK MEADOWS DRIVE

DIVISION	DRAWN BY:	C. MUNZ	F.A.P. NO.		TS NO.	
	CHECKED BY:		S.H.A. NO.		777B	SHEET NO.
	SCALE:	I" = 20'	_ COUNTY:	PRINCE GEORGE'S	T.I.M.S. NO.	
,	DATE:	2/00	LOG MILE:	16000110.23		<u>19</u> _ oF <u>24</u>

